Application of Quick Response Code Technology in Engineering College Libraries: with special reference to Pune and Mumbai Region

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Title

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1. Introduction

In this digital age due to growth in Information and communication technology, data and information is no longer tied to physical location. The current generations students are often accomplish at “multiprocessing” and make an ample use of internet resources rather than the offline library resources. This can be made easier way to find information with one click instead of wasting time finding a book in the library. But in recent years, library system has become technologically advanced catering new services such as OPAC interfaces, virtual cataloguing and referencing, automated current awareness and downloadable media which are accessible from computers or mobile devices.

With the advancement in information technology, the information is no longer confined to a single physical location. With the parallel advancement in mobile technology, the information is available anywhere and at any time with a single click. The Quick response (QR) codes make it easy to access information using smart phones with QR scanners installed without having to remember complex web addresses.

QR code was invented by the Denson Wave- Toyota Motors subsidiary in 1994. This is a two-dimensional barcode that is readable by long multilingual text, a linked URL, business card or mobile phone with any information, camera and QR scanner.

In following ways QR code may use in Academic Libraries.

- To promote events
- To get immediate access to wireless network
- Can be used to vote using twitter tools
- To enhance information in books
- Sharing web resources with students
- To give access to important information

- To create virtual tour of an institute
- Can be linked directly to Google maps
- Linking reading books to online resources

Quick Response (QR) code is a matrix barcode readable by smart phones and mobile phones with cameras. They are frequently referred to as 2D codes, 2D barcodes, or mobile codes. Although colorful and even branded QR codes are now used, QR codes generally appear as a small white square with black geometric shapes. QR codes may contain more information than regular barcodes. The information encoded in the QR code can be a URL, phone number, SMS message, V-card or any text. They are referred to as QRs because they allow content to be decoded at high speed.

2. Statement of Problem

"Application of Quick Response Code Technology in Engineering College Libraries: with special reference to Pune and Mumbai Region"

3. Significance of the Research

Most of the world Knowledge is still stored in millions of physical books on the shelf of libraries. E-books, iPads and Kindles may be the way of the future. In Library Not all books can be converted to digital content because they have different technicalities Issues like copyright. Researchers spend more time on the Internet. for reasons the growth of mobile base devices, for example laptops, iPhones, iPads, mobilesHandset has been increase. However, they are unable to reach satisfactory information per their needs. And therefore, to bridge this gap between billions of physical books and users this study proposes to use QR codes. Withthis library can give access to print materials so that these valuable books can be used by mobile base users by visiting the library.

This kind of Information is not available at therefore this study is aimed at providing convenient Information in this regard. This will definitely solve the Difficulties using QR code Technology. therefore, this Study from these Perspectives very important.

3.1 Operational Definitions:

1) A machine-readable code consisting of an array of black and white squares, typically used for storing URLs or other information for reading by the camera on a Smartphone
2) QR code, or quick response code, is the trademark for a square scannable barcode image that allows smart phone users to link directly to a website

4. The scope & Limitation of the study

Researcher has selected the Statement of Problem "Application of Quick Response Code Technology in Engineering College Libraries: with special reference to Pune and Mumbai Region". Researcher has undertaken those Engineering College Libraries having Standard Software, Wi-Fi Facilities to implemented QR Code Technology for giving different types of Library Services.

The Researcher collects data through a questionnaire from Librarian and Library users. But in the case of library user's researcher has chosen library committee members. one user from faculty member and one user from student representative, from each engineering college libraries, that means researcher has undertaken stratified sampling under restricted random sampling.

5. Objectives of the Research

1. To identify mobile technology base services in the Engineering College Libraries.
2. To review the present status about application of Quick Response (QR) code technology in Engineering college Libraries.
3. To identify efforts taken by librarians/ libraries for application of Quick Response (QR) code technology in the Engineering College Libraries.
4. To study the satisfaction level of Library users and Librarians about Quick Response (QR) code technology.
5. To develop role model for effective implementation of QR code technology to provide library services.

6.Hypothesis

H1- The Use of Quick Response (QR) code technology in Engineering college Libraries is at initial stage.
H2- Quick Response (QR) code technology attracts the library users.

H3- Quick Response (QR) code technology transmit pinpont information to the users.

H4- various Engineering college libraries are ready to use Quick Response (QR) code technology in their library.
H5- The awareness of mechanism of Quick Response (QR) code technology among the librarians is low.

7. Literature Review

In the Present Investigation Researcher Planned to take Support of a Variety of Reading Material related to research such as Books,E-books,Journals, Articles,E-Publications, M.phil Dissertations, Research Reports, Projects, CD's, Audio Visual Sources, Doctoral Dissertations and various Websites on the Internet etc. The Literature of the above-mentioned type is to be considering during the course of this Study.

8. Research Methodology

For the present Research Work the Survey Methodology will be used. During this research, the researcher will be discovering which factors affects to implement QR code Technology for giving services in the library, and simultaneously the researcher collects data through a questionnaire from Librarian and Library Users.

9.Data Collection and Analysis

For this Research Work most of the data collect through Questioners from Engineering College Libraries of Pune and Mumbai region. after the Researcher has collect data through questioners in various Engineering Colleges, This Collect data will be Analyzed as per the objectives of the Study. In this Process Tables, Charts, Pi-charts, Maps, Graphs etc. are likely to be used.

10.Conspectus

1.Introduction

1.1- Research Objective
1.2-Statement of Problem
1.3-Significance of the Research
1.4-Operational Definitions

1.5-Scope and Limitations of the Research
1.6-Research Methodology
1.7-Data Collection
1.8-Data Analysis
1.9-Conceptus

2.Litreture Review

3.Data Collection, Analysis and Interpretation

4.Findings, Suggestions and Conclusion

Apendix

Bibliography:

References:

1. Kothari C R & Garg Gaurav.(2014),*"RsearchMethodology:Methods& Techniques"*3 rded.New Age,p.-39.
2.Thomas .C.G.(2016),"Research Methodology and Scientific Writing ".*Ane Books.* p.- 70-71
3. https://www.lexico.com/en/definition/qr_code
4. https://www.yourdictionary.com/qr-code
5.Farashbandi, F. Z., & Najafi, N. S. S. (2014), ―Quick Response Code Applications in Library and Information Centers.*Jentashapir J. Health Res* 5(2): 73-78.

6.Pons, D. and et. al. (2011), ―QR codes in use: the experience at the UPV Library.*Serials: The Journal for the Serials Community* 24(3 – Supplement): S47–S56. http://doi.org/10.1629/24S47

7.Coleman, J. 2011. ―QR Codes: What Are They and Why Should You Care?
*Kanas Library Association College and University Libraries Section Processings*1(1):16 http://doi.org/10.4148/culs.v1i0.1355

8.ACRL Research Planning and Review Committee, "2010 top ten trends in academic libraries: A review of the current literature,". *C&RL News* 71, 6 (June. 2010)

9.Kharat, Santosh Abaji(2018) - QR (Quick Response) Code & Augmented Reality Application (ARA) to deliver mobile base library services: An implementation study